Contents of volume 345

No. 1 published on January 22, 1992

M. Gobbi, E. Frittoli, T. Mennini, S. Garattini: Releasing activities of d-fenfluramine and fluoxetine on rat hippocampal synaptosomes preloaded with [^{3}H]serotonin **1**

C. Liebmann, S. Nawrath, M. Schnittler, H. Schubert, K.-H. Jakobs: Binding characteristics and functional G protein coupling of muscarinic acetylcholine receptors in rat duodenum smooth muscle membranes **7**

V. Dolezal, R. Jackisch, G. Hertting, C. Allgaier: Activation of dopamine D_1 receptors does not affect D_2 receptor-mediated inhibition of acetylcholine release in rabbit striatum **16**

V. Palatý: The cocaine-insensitive component of non-exocytotic efflux of noradrenaline from adrenergic axons in the isolated rat tail artery **21**

L. C. Rump, M. J. Schuster, P. Schollmeyer: Activation of β_2-adrenoceptors by isoprenaline and adrenaline enhances noradrenaline release in cortical kidney slices of young spontaneously hypertensive rats **25**

A. S. Bass: Presynaptic effects of dopexamine hydrochloride in the canine kidney **33**

B. Bucher, C. Corriu, J.-C. Stoclet: Prejunctional opioid μ-receptors and adenosine A_1-receptors on the sympathetic nerve endings of the rat tail artery interact with the α_2-adrenoceptors **37**

U. Mende, T. Eschenhagen, B. Geertz, W. Schmitz, H. Scholz, J. Schulte am Esch, R. Sempell, M. Steinfath: Isoprenaline-induced increase in the 40/41 kDa pertussis toxin substrates and functional consequences on contractile response in rat heart **44**

P. L. M. van Giersbergen, S. A. Shatzer, E. Burcher, S. H. Buck: Comparison of the effects of neuropeptide K and neuropeptide γ with neurokinin A at NK_2 receptors in the hamster urinary bladder **51**

C. Carles-Bonnet, C. Jarrousse, H. Niel, J. Martinez, M. Rolland, D. Bataille: N-acetyl oxyntomodulin$_{30-37}$: pharmacokinetics and activity on gastric acid secretion **57**

J.-M. Heim, S. Singh, H.-J. Fülle, R. Gerzer: Comparison of a cloned ANF-sensitive guanylate cyclase (GC-A) with particulate guanylate cyclase from adrenal cortex **64**

R. A. Baker, G. T. P. Saccone, D. Costi, A. Thune, J. Toouli: Motilin and erythromycin enhance the in vitro contractile activity of the sphincter of Oddi of the Australian Brush-tailed Possum **71**

T. Miyazaki, T. Hashiguchi, M. Hashiguchi, S. Sakai, T. Tosaka, M. Kanazawa: Phenytoin partially antagonized L-type Ca^{2+} current in glucagon-secreting tumor cells (ITC-1) **78**

C. L. Zhang, S. S. Chatterjee, U. Stein, U. Heinemann: Comparison of the effects of losigamone and its isomers on maximal electroshock induced convulsions in mice and on three different patterns of low magnesium induced epileptiform activity in slices of the rat temporal cortex **85**

K. I. Thelen, A. Dembinska-Kiéc, D. Pallapies, Th. Simmet, B. A. Peskar: Effect of 3-morpholino-sydnonimine (SIN-1) and N^G-nitro-L-arginine (NNA) on isolated perfused anaphylactic guinea-pig hearts **93**

F. V. Bielen, H. G. Glitsch, F. Verdonck: The kinetics of the inhibition by dihydroouabain of the sodium pump current in single rabbit cardiac Purkinje cells **100**

M. S. Fernández-Alfonso, C. F. Sánchez-Ferrer, M. Salaices, J. Marín: Functional role of sodium pump in human placental arteries **108**

H. Wuorela, P. Arvola, I. Pörsti, E. Siltaloppi, P. Säynävälammi, H. Vapaatalo: The effect of high calcium intake on Ca^{2+} ATPase and the tissue Na:K ratio in spontaneously hypertensive rats **117**

N. Rietbrock, S. Kunkel, W. Wörner, P. Eyer: Oxygen-dissociation kinetics in the blood of smokers and non-smokers: interaction between oxygen and carbon monoxide at the hemoglobin molecule **123**

No. 2 published on February 19, 1992

R. Wölfel, K.-H. Graefe: Evidence for various tryptamines and related compounds acting as substrates of the platelet 5-hydroxytryptamine transporter **129**

R. Tao, S. Hjorth: α_2-Adrenoceptor modulation of rat ventral hippocampal 5-hydroxytryptamine release in vivo **137**

P. De Boer, G. Damsma, Q. Schram, J. C. Stoof, J. Zaagsma, B. H. C. Westerink: The effect of intrastriatal application of directly and indirectly acting dopamine agonists and antagonists on the in vivo release of acetylcholine measured by brain microdialysis. The importance of the post-surgery interval **144**

L. P. Dwoskin, A. L. Jewell, L. A. Cassis: DuP 753, a nonpeptide angiotensin II-1 receptor antagonist, alters dopaminergic function in rat striatum **153**

G. Eisenhofer, J. J. Smolich, M. D. Esler: Disposition of endogenous adrenaline compared to noradrenaline released by cardiac sympathetic nerves in the anaesthetized dog **160**

S. Gurtu, S. Seth, A. K. Roychoudhary: Evidence for verapamil-induced functional inhibition of noradrenergic neurotransmission in vivo **172**

N. Singewald, A. Klausmair, A. Philippu: Blood pressure changes modify the release rates of catecholamines in the intermediate nucleus of the solitary tract **176**

N. Singewald, A. Pfitscher, A. Philippu: Effects of gamma-vinyl GABA (vigabatrin) on blood pressure and body weight of hypertensive and normotensive rats **181**

D. Hönack, C. Rundfeldt, W. Löscher: Pharmacokinetics, anticonvulsant efficacy, and adverse effects of trans-2-en-valproate after acute and chronic administration in amygdala-kindled rats **187**

J. M. Barnes, N. M. Barnes, P. C. Barber, S. Champaneria, B. Costall, C. D. Hornsby, J. W. Ironside, R. J. Naylor: Pharmacological comparison of the sigma recognition site labelled by [^{3}H]haloperidol in human and rat cerebellum **197**

J. Kamei, K. Katsuma, Y. Kasuya: Involvement of μ-opioid receptors in the antitussive effects of pentazocine **203**

S. Wolfarth, W. Kolasiewicz, K. Ossowska, M. Bober: Direct mechanomyographic measurement of the myorelaxant action of baclofen and diazepam in normal and reserpinized rats **209**

P. R. S. Kodavanti, S. N. Pentyala, P. R. Yallapragada, D. Desaiah: Amiodarone and desethylamiodarone increase intrasynaptosomal free calcium through receptor mediated channel **213**

G. Engberg, M. Hajós: Ethanol attenuates the response of locus coeruleus neurons to excitatory amino acid agonists in vivo **222**

A. Kistner, E. Habermann: Reductive cleavage of tetanus toxin and botulinum neurotoxin A by the thioredoxin system from brain. Evidence for two redox isomers of tetanus toxin **227**

E. Gylfe: BAY K 8644 stimulates glucose-dependent rise of cytoplasmic Ca^{2+} in hyperpolarized pancreatic β-cells **235**

V. A. W. Kreye, D. Pfründer, U. Theiss: Effects of the K^+ channel blocker tedisamil on ^{86}Rb efflux induced by cromakalim, high potassium and noradrenaline, and on mechanical tension in rabbit isolated vascular smooth muscle **238**

K. Bray, U. Quast: Differential inhibition by tedisamil (KC 8857) and glibenclamide of the responses to cromakalim and minoxidil sulphate in rat isolated aorta **244**

Short communication

F. Amenta, M. De Michele, P. Strocchi, F. Ferrante, P. Gallo: Muscarinic cholinergic receptors in the human right coronary artery: a receptor binding and autoradiographic study **251**

Errata 255, 256

No. 3 published on March 4, 1992

H. W. G. M. Boddeke, A. Fargin, J. R. Raymond, P. Schoeffter, D. Hoyer: Agonist/antagonist interactions with cloned human 5-HT_{1A} receptors: variations in intrinsic activity studied in transfected HeLa cells **257**

A. Dumuis, H. Gozlan, M. Sebben, H. Ansanay, C. A. Rizzi, M. Turconi, E. Monferini, E. Giraldo, P. Schiantarelli, H. Ladinsky, J. Bockaert: Characterization of a novel 5-HT_4 receptor antagonist of the azabicycloalkyl benzimidazolone class: DAU 6285 **264**

H. Kilbinger, D. Wolf: Effects of 5-HT_4 receptor stimulation on basal and electrically evoked release of acetylcholine from guinea-pig myenteric plexus **270**

R. Bertorelli, D. Amoroso, P. Girotti, S. Consolo: Effect of tianeptine on the central cholinergic system: involvement of serotonin **276**

A. Enz, G. Shapiro, P. Supavilai, H. W. G. M. Boddeke: SDZ ENS 163 is a selective M_1 agonist and induces release of acetylcholine **282**

S. A. Darroch, L. K. Choo, F. Mitchelson: Prejunctional muscarine receptors in the rabbit ear artery differ from M_1, M_2 and M_3 muscarine receptors **288**

S. E. Taylor, Le Nguyen, C. Halket: Carbachol potentiates isoprenaline-induced mucin secretion by rat submandibular gland **296**

L. C. Rump, K. Wilde, C. Bohmann, P. Schollmeyer: Effects of the novel dopamine DA_2-receptor agonist carmoxirole (EMD 45609) on noradrenergic and purinergic neurotransmission in rat isolated kidney **300**

M. E. A. Reith, G. Selmeci: Radiolabeling of dopamine uptake sites in mouse striatum: comparison of binding sites for cocaine, mazindol, and GBR 12935 **309**

L. J. Bryan-Lluka, N. N. Westwood, S. R. O'Donnell: Vascular uptake of catecholamines in perfused lungs of the rat occurs by the same process as $Uptake_1$ in noradrenergic neurones **319**

S. P. Roberts, J. Kelly, M. A. Cawthorne, M. V. Sennitt: SK&F 104078, a post-junctionally selective α_2-adrenoceptor antagonist in the human saphenous vein in vitro **327**

M. A. Noguera, M. P. D'Ocon: Different and common intracellular calcium-stores mobilized by noradrenaline and caffeine in vascular smooth muscle **333**

J. Sánchez-Chapula: Effects of metoprolol on action potential and membrane currents in guinea-pig ventricular myocytes **342**

S.-M. Yu, F.-N. Ko, M.-J. Su, T.-S. Wu, M.-L. Wang, T.-F. Huang, C.-M. Teng: Vasorelaxing effect in rat thoracic aorta caused by fraxinellone and dictamine isolated from the Chinese herb *Dictamnus dasycarpus* Turcz: comparison with cromakalim and Ca^{2+} channel blockers **349**

E. O. Mikkelsen, S. H. Poulsen, N. C. B. Nyborg, N. Korsgaard, J. Sehested: Difference between aortic and renal vascular reactivity incyclosporin A treated rats and the effect of cicletanine **356**

No. 4 published on April 1, 1992

K. Lee, S. Miwa, K. Koshimura, A. Ito: Characterization of nicotinic acetylcholine receptors on cultured bovine adrenal chromaffin cells using modified L-[^{3}H]nicotine binding assay **363**

M. C. Michel, F. Feth, M. Stieneker, W. Rascher: NPY and carbachol raise Ca^{2+} in SK-N-MC cells by three different mechanisms. Evidence for inositol phosphate-independent Ca^{2+} mobilization by NPY **370**

R. M. Eglen, G. C. Harris, A. P. D. W. Ford, E. H. F. Wong, J. R. Pfister, R. L. Whiting: The action of (±)L-660,863 [(±)3-(3-amino-1,2,4-oxadiazole-5-yl)-quinuclidine] at muscarinic receptor subtypes in vitro **375**

L. Sanders, A. J. Kaumann: A 5-HT_4-like receptor in human left atrium **382**

K.-H. Buchheit, R. Gamse, H.-J. Pfannkuche: SDZ 205-557, a selective, surmountable antagonist for 5-HT_4 receptors in the isolated guinea pig ileum **387**

H. Pertz, E. Eich: O-Acylated lysergol and dihydro-lysergol-I derivatives as competitive antagonists of 5-HT at 5-HT_2 receptors of rat tail artery. Allosteric modulation instead of pseudoirreversible inhibition **394**

C. Allgaier, E. Agneter, T. J. Feuerstein, E. A. Singer: Estimation of the biophase concentration of noradrenaline at presynaptic α_2-adrenoceptors in brain slices **402**

G. Maura, G. Bonanno, M. Raiteri: Presynaptic α_2-adrenoceptors mediating inhibition of noradrenaline and 5-hydroxytryptamine release in rat cerebral cortex: further characterization as different α_2-adrenoceptor subtypes **410**

H. Fuder, A. Brink, M. Meincke, U. Tauber: Purinoceptor-mediated modulation by endogenous and exogenous agonists of stimulation-evoked [^{3}H]noradrenaline release on rat iris **417**

R. J. Evans, T. C. Cunnane: Relative contributions of ATP and noradrenaline to the nerve evoked contraction of the rabbit jejunal artery. Dependence on stimulation parameters **424**

G. Tavernier, C. Damase-Michel, G. Portolan, M.-A. Tran, J.-L. Montastruc: Is neuropeptide Y co-released with catecholamines in experimental arterial hypertension following sinoaortic denervation? **431**

E. Schömig, J. Babin-Ebell, H. Russ, U. Trendelenburg: The force driving the extraneuronal transport mechanism for catecholamines (uptake$_2$) **437**

M. J. Lohse: Stable overexpression of human β_2-adrenergic receptors in mammalian cells **444**

W. Löscher, D. Hönack: Withdrawal precipitation by benzodiazepine receptor antagonists in dogs chronically treated with diazepam or the novel anxiolytic and anticonvulsant β-carboline abecarnil **452**

S. Tanganelli, K. Fuxe, L. Ferraro, A. M. Janson, C. Bianchi: Inhibitory effects of the psychoactive drug modafinil on γ-aminobutyric acid outflow from the cerebral cortex of the awake freely moving guinea-pig. Possible involvement of 5-hydroxytryptamine mechanisms **461**

R. Maldonado, M. C. Fournié-Zaluski, B. P. Roques: Attenuation of the morphine withdrawal syndrome by inhibition of catabolism of endogenous enkephalins in the periaqueductal gray matter **466**

T. C. Wascher, P. Dittrich, W. R. Kukovetz: LG 6-101 and LG 6-102, two new propafenone-related antiarrhythmic agents with good oral activity in rats **473**

L. Wu, E. Karpinski, R. Wang, P. K. T. Pang: Modification by solvents of the action of nifedipine on calcium channel currents in neuroblastoma cells **478**

J. Kawagoe, K. Abe, J. Ikuta, N. Igarashi, S. Shimizu, Y. Yamauchi, K. Kogure: Effect of dilazep dihydrochloride against ischemia and reperfusion-induced disruption of blood-brain barrier in rats: a quantitative study **485**

Short communication

E. Schlicker, A. Behling, G. Lümmen, M. Göthert: Histamine H_{3A} receptor-mediated inhibition of noradrenaline release in the mouse brain cortex **489**

No. 5 published on May 4, 1992

R. Oishi, Y. Itoh, K. Saeki: Inhibition of histamine turnover by 8-OH-DPAT, buspirone and 5-hydroxytryptophan in the mouse and rat brain **495**

W. A. Bax, D. Van Heuven-Nolsen, E. Bos, M. L. Simoons, P. R. Saxena: 5-Hydroxytryptamine-induced contractions of the human isolated saphenous vein: involvement of 5-HT$_2$ and 5-HT$_{1D}$-like receptors, and a comparison with grafted veins **500**

M. O. Den Boer, C. M. Villalón, P. R. Saxena: 5-HT$_1$-like receptor mediated changes in porcine carotid haemodynamics: are 5-HT$_{1D}$ receptors involved? **509**

S. Ahlenius: Effects of the local application of 3-PPP and sulpiride enantiomers into the nucleus accumbens or into the ventral tegmental area on rat locomotor activity: evidence for the functional importance of somatodendritic autoreceptors **516**

B. H. C. Westerink, M. Santiago, J. B. De Vries: The release of dopamine from nerve terminals and dendrites of nigrostriatal neurons induced by excitatory amino acids in the conscious rat **523**

C. Reithmann, B. Panzner, K. Werdan: Distinct pathways for β-adrenoceptor-induced up-regulation of muscarinic acetylcholine receptors and inhibitory G-protein α-subunits in chicken cardiomyocytes **530**

E. Schömig, I. Azevedo, D. Moura, U. Trendelenburg: The influence of the density of adrenergic innervation on the extracellular steady-state concentration gradient for ^{3}H-noradrenaline **541**

P. C. Waldmeier, K. Stöcklin, J.-J. Feldtrauer: Weak effects of local and systemic administration of the GABA uptake inhibitor, SK&F 89976, on extracellular GABA in the rat striatum **544**

P. C. Waldmeier, K. Stöcklin, J.-J. Feldtrauer: Systemic administration of baclofen and the GABA$_B$ antagonist, CGP 35348, does not affect GABA, glutamate or aspartate in microdialysates of the striatum of conscious rats **548**

I. M. Coupar: Effect of α_2-adrenoceptor agonists on the expression of morphine-withdrawal in rats **553**

A. P. IJzerman, M. Kruidering, A. van Weert, H. van Belle, C. Janssen: [^{3}H]R75231 – a new radioligand for the nitrobenzylthioinosine sensitive nucleoside transport proteins. Characterization of (±)-[^{3}H]R75231 binding to calf lung membranes, stereospecificity of its two stereoisomers, and comparison with [^{3}H]nitrobenzylthioinosine binding **558**

U. Jahnel, H. Nawrath, R. Ochi: Adrenoceptor-mediated effects on calcium channel currents are antagonized by 5′-(N-ethyl)-carboxamido-adenosine in guinea-pig atrial cells **564**

R. Bodewei, S. Hehl, B. Neumcke: The cardiotonic bipyridine AWD 122-60 inhibits adenosine triphosphate-sensitive potassium channels of mouse skeletal muscle **570**

M. Endoh, M. Takanashi, I. Norota: Role of alpha$_{1A}$ adrenoceptor subtype in production of the positive inotropic effect mediated via myocardial alpha$_1$ adrenoceptors in the rabbit papillary muscle: influence of selective alpha$_{1A}$ subtype antagonists WB 4101 and 5-methylurapidil **578**

S. Braun, N. Frey, S. Herzig, C. Hilbert: Potentiation of cardiodepressive action among calcium antagonists from different classes: evidence for a mechanism at the single calcium channel level **587**

E. Müller-Schweinitzer, P. Ellis: Sucrose promotes the functional activity of blood vessels after cryopreservation in DMSO-containing fetal calf serum **594**

W. Daniel, L. Janczar, L. Danek, W. Legrum, K. J. Netter: Pharmacokinetic interaction between carbamazepine and neuroleptics after combined prolonged treatment in rats **598**

Short communication

S. Boehm, S. Huck, H. Drobny, E. A. Singer: Pertussis toxin abolishes the inhibition of Ca^{2+} currents and of noradrenaline release via α_2-adrenoceptors in chick sympathetic neurons **606**

No. 6 published on June 9, 1992

I. T. Bognar, U. Altes, C. Beinhauer, I. Kessler, H. Fuder: A muscarinic receptor different from the M_1, M_2, M_3 and M_4 subtypes mediates the contraction of the rabbit iris sphincter **611**

M. Ferrer, R. Galván, J. Marín, G. Balfagón: Presynaptic muscarinic receptor subtypes involved in the inhibition of acetylcholine and noradrenaline release in bovine cerebral arteries **619**

M. H. Heijna, F. Hogenboom, A. H. Mulder, A. N. M. Schoffelmeer: Opioid receptor-mediated inhibition of ^{3}H-dopamine and ^{14}C-acetylcholine release from rat nucleus accumbens slices. A study on the possible involvement of K^+ channels and adenylate cyclase **627**

K. Fink, M. Blohm, G. Molderings, H. Bönisch, M. Göthert: Preferential location of N-methyl-D-aspartate (NMDA) receptors on postsynaptic membranes and on non-noradrenergic nerve terminals of the rat brain cortex **633**

E. Schlicker, A. Behling, G. Lümmen, B. Malinowska, M. Göthert: Mutual interaction of histamine H_3-receptors and α_2-adrenoceptors on noradrenergic terminals in mouse and rat brain cortex **639**

L. Voog, T. Eriksson: Chronopharmacology of isoprenaline: the effects on rat plasma concentrations of large neutral amino acids depend on time of day for administration **647**

F. Pi, J. A. García-Sevilla: α_2-Autoreceptor-mediated modulation of tyrosine hydroxylase activity in noradrenergic regions of the rat brain in vivo **653**

W. Timmerman, J. Zwaveling, B. H. C. Westerink: Characterization of extracellular GABA in the substantia nigra reticulata by means of brain microdialysis **661**

M. Benuck, M. E. A. Reith: Dopamine releasing effect of phenylbiguanide in rat striatal slices **666**

D. P. Brooks, T. A. Fredrickson, J. Weinstock, R. R. Ruffolo, Jr., R. M. Edwards, M. Gellai: Antihypertensive activity of the non-peptide angiotensin II receptor antagonist, SK&F 108566, in rats and dogs **673**

J. Latifpour, M. Yoshida, R. M. Weiss: Evidence for the presence of regional differences in the calcium antagonist receptors in lower urinary tract smooth muscle **679**

S. Nagashima, T. Uematsu, S. Araki, T. Matsuzaki, M. Fukuchi, H. Hashimoto, M. Nakashima: Anti-arrhythmic and electrophysiological effects of SD-3212, a novel Na^+ and Ca^{++} channel blocker, in anaesthetized dogs with myocardial infarction in comparison with its stereoisomer (SD-3211) and bepridil **688**

Short communications

L. O. Wilkinson, D. N. Middlemiss: Metitepine distinguishes two receptors mediating inhibition of [^{3}H]-5-hydroxytryptamine release in guinea pig hippocampus **696**

K. Fink, R. Schultheiß, M. Göthert: Inhibition of N-methyl-D-aspartate- and kainate-evoked noradrenaline release in human cerebral cortex slices by ethanol **700**

Contents of volume 345 I–XII

Indexed in *Current Contents*

Supplement 1 to Volume 345 (1992)
Abstracts of the 33rd Spring Meeting of the Deutsche Gesellschaft für Pharmakologie und Toxikologie, 10–12 March 1992, Mainz R1–R130